CABBAGE: *Brassicae oleracea* var. *capitata* L. ‘Rio Verde’
Diamondback moth (DBM); *Plutella xylostella* (L.)
Cabbage budworm (CBW); *Heliothis phidilea* (Walker)

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MANAGEMENT OF LEPIDOPTEROUS PESTS ON CABBAGE WITH TEFUBENZURON, 1990: ‘Rio Verde’ cabbage seeds were incorporated into a germination mix (Pro-Mix) and direct seeded into a Rockdale soil at the University of Florida’s Tropical Research and Education Center on 5 Feb 1990. The soil was fumigated with Terr-O-Gas (75% methyl bromide, 25% chloroparin; 246 kg/ha) and covered with white on black plastic mulch on 30 Jan. Plants were spaced 0.3 m apart within rows and 0.76 m apart between rows on 25 Jan. Goal 2 EC was applied (0.36 kg (AI)/ha) between the beds on 2 Feb for week control. Plants were irrigated 4 h day using a turbo T-tape drip irrigation system (model 40) which delivered 5.0 liters of water/m of dripline/h. Treatments were replicated 4 times in a randomized complete block design. Treatment plots were 4 rows (2 beds) by 12.5 m long. A 3.0-m long section of non-treated plants separated replicates. Treatments within a replicate were separated by one non-treated bed and a 1.8 m alleyway. Efficacy and residual activity of CME 13406 (0.033 kg (AI)/ha) were evaluated and incorporated into the soil on 25 Jan. Goal 2 EC was applied (0.56 kg (AI)/ha) between the beds on 2 Feb for week control. Plants were irrigated 4 h day into a germination mix (Pro-Mix) and direct seeded into a Rockdale soil at the University of Florida’s Tropical Research and Education Center on 5 Feb.

*Cabbage:*

Brassicae oleracea var. capitata L. ‘Rio Verde’

**Total DBM larvae/plant**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Application frequency*</th>
<th>Rate (AI)/ha</th>
<th>6 Mar</th>
<th>14 Mar</th>
<th>26 Mar</th>
<th>23 Apr</th>
<th>20 Apr</th>
<th>17 Apr</th>
<th>14 Apr</th>
<th>11 Apr</th>
<th>8 Apr</th>
<th>5 Apr</th>
<th>2 Apr</th>
<th>30 Apr</th>
<th>Sum of means</th>
</tr>
</thead>
<tbody>
<tr>
<td>CME 13406 15 SC</td>
<td>W/B</td>
<td>0.033 kg</td>
<td>2.2a</td>
<td>3.3bc</td>
<td>11.0ab</td>
<td>3.0b</td>
<td>20.1ab</td>
<td>5.6c</td>
<td>2.2c</td>
<td>0.7b</td>
<td>48.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CME 13406 15 SC + Cutlass WP</td>
<td>W/B</td>
<td>0.033 kg</td>
<td>2.5a</td>
<td>2.2c</td>
<td>8.6b</td>
<td>3.4b</td>
<td>8.7b</td>
<td>4.1cd</td>
<td>1.1d</td>
<td>0.3b</td>
<td>30.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CME 13406 15 SC + Dipel</td>
<td>W/B</td>
<td>2.2 kg</td>
<td>2.8a</td>
<td>5.0b</td>
<td>19.4a</td>
<td>2.5b</td>
<td>4.5cd</td>
<td>2.6c</td>
<td>1.3cd</td>
<td>0.8b</td>
<td>40.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CME 13406 15 SC + B/J</td>
<td>W/B</td>
<td>0.033 kg</td>
<td>1.7a</td>
<td>1.7c</td>
<td>25.3a</td>
<td>4.2b</td>
<td>2.6c</td>
<td>1.6c</td>
<td>0.8b</td>
<td>49.9</td>
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</tr>
<tr>
<td>Phosdrin 4 E + Dipel 2 X</td>
<td>W/B</td>
<td>0.56 kg</td>
<td>2.4a</td>
<td>1.8c</td>
<td>20.5a</td>
<td>15.0a</td>
<td>23.5a</td>
<td>7.0c</td>
<td>3.5b</td>
<td>0.8b</td>
<td>74.6</td>
<td></td>
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<td></td>
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<tr>
<td>Nontreated</td>
<td>W/B</td>
<td></td>
<td>2.6a</td>
<td>9.1a</td>
<td>21.4a</td>
<td>13.3a</td>
<td>23.4a</td>
<td>34.5a</td>
<td>8.0a</td>
<td>7.4a</td>
<td>119.7</td>
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</tr>
</tbody>
</table>

Means within a column followed by the same letter are not significantly different (P = 0.05, Waller-Duncan K-catio t-test, K-catio = 100).

Insect count data were transformed to ln before analysis.

*W/B, weekly applications for three weeks and then biweekly; B/J, Biweekly applications until heading and then judiciously; B, Biweekly applications.
Means within a column followed by the same letter are not significantly different (P = 0.05, Waller-Duncan K-ratio t-test, K-ratio = 100).

Means within a column followed by the same letter are not significantly different (Waller-Duncan K-ratio t-test, K-ratio = 100).

CABBAGE: Brassicae oleracea var. capitata L. 'Rio Verde'

INTEGRATED MANAGEMENT OF LEPIDOPTEROUS PESTS ON CABBAGE, 1990: 'Rio Verde' cabbage seeds were incorporated into a germination mix (Pro-Mix) and direct seeded into a Rockdale soil at the University of Florida’s Tropical Research and Education Center on 6 Feb 1990. The soil was fumigated with Terr-O-Gas (75% methyl bromide, 25% chloropicrin; 246 kg/ha) and covered with white on black plastic mulch on 30 Jan. Plants were spaced 0.3 m apart within rows and 0.76 m apart between rows on 1.8 m-center beds. Fertilizer (1600 kg/ha of granular 6:12:12) was applied and incorporated into the soil on 25 Jan. Goal 2 EC was applied (0.56 kg (AI)/ha) between the beds on 2 Feb for weed control. Plants were irrigated 4 h/day using a turbo T-tape drip irrigation system (model 40) which delivered 5.0 liters of water/m of dripline/h. Eight treatments and a nontreated check were incorporated into the soil on 25 Jan. Goal 2 EC was applied (0.56 kg (AI)/ha) between the beds on 2 Feb for weed control. Plants were irrigated 4 h/day using a turbo T-tape drip irrigation system (model 40) which delivered 5.0 liters of water/m of dripline/h. Eight treatments and a nontreated check were incorporated into the soil on 25 Jan.